Shenlong Zhao

List of Publications by Year
in descending order

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83 papers	11,871 citations	44069 48 h-index	58581 82 g-index
83 all docs	83 docs citations	83 times ranked	13098 citing authors

#	Article	IF	Citations
1	Insight into Structural Evolution, Active Sites, and Stability of Heterogeneous Electrocatalysts. Angewandte Chemie - International Edition, 2022, 61, .	13.8	140
2	Insight into Structural Evolution, Active Sites, and Stability of Heterogeneous Electrocatalysts. Angewandte Chemie, 2022, 134, .	2.0	38
3	Metal-organic framework assembly derived hierarchically ordered porous carbon for oxygen reduction in both alkaline and acidic media. Chemical Engineering Journal, 2022, 430, 132762.	12.7	13
4	Nanostructured hexaazatrinaphthalene based polymers for advanced energy conversion and storage. Chemical Engineering Journal, 2022, 427, 130995.	12.7	16
5	The biomimetic engineering of metalâ€“organic frameworks with single-chiral-site precision for asymmetric hydrogenation. Journal of Materials Chemistry A, 2022, 10, 6463-6469.	10.3	14
6	Self-Assembly of Ir-Based Nanosheets with Ordered Interlayer Space for Enhanced Electrocatalytic Water Oxidation. Journal of the American Chemical Society, 2022, 144, 2208-2217.	13.7	103
7	Regulating electron transfer over asymmetric low-spin Co(II) for highly selective electrocatalysis. Chem Catalysis, 2022, 2, 372-385.	6.1	50
8	Cationâ€Tuning Induced dâ€Band Center Modulation on Coâ€Based Spinel Oxide for Oxygen Reduction/Evolution Reaction. Angewandte Chemie, 2022, 134, .	2.0	14
9	Cationâ€Tuning Induced dâ€Band Center Modulation on Coâ€Based Spinel Oxide for Oxygen Reduction/Evolution Reaction. Angewandte Chemie - International Edition, 2022, 61, .	13.8	156
10	Cationâ€Vacancyâ€Enriched Nickel Phosphide for Efficient Electrosynthesis of Hydrogen Peroxides. Advanced Materials, 2022, 34, e2106541.	21.0	123
11	Geometrically Deformed Iron-Based Single-Atom Catalysts for High-Performance Acidic Proton Exchange Membrane Fuel Cells. ACS Catalysis, 2022, 12, 5397-5406.	11.2	43
12	Activating Lattice Oxygen in Layered Lithium Oxides through Cation Vacancies for Enhanced Urea Electrolysis. Angewandte Chemie - International Edition, 2022, 61, .	13.8	116
13	Activating Lattice Oxygen in Layered Lithium Oxides through Cation Vacancies for Enhanced Urea Electrolysis. Angewandte Chemie, 2022, 134, .	2.0	10
14	Single-metal-atom catalysts: An emerging platform for electrocatalytic oxygen reduction. Chemical Engineering Journal, 2021, 406, 127135.	12.7	67
15	Discarded antibiotic mycelial residues derived nitrogen-doped porous carbon for electrochemical energy storage and simultaneous reduction of antibiotic resistance genes(ARGs). Environmental Research, 2021, 192, 110261.	7.5	8
16	Recent progress in all-inorganic metal halide nanostructured perovskites: Materials design, optical properties, and application. Frontiers of Physics, 2021, 16, 1.	5.0	26
17	Pt₃Co@Pt Core@shell Nanoparticles as Efficient Oxygen Reduction Electrocatalysts in Direct Methanol Fuel Cell. ChemCatChem, 2021, 13, 1587-1594.	3.7	23
18	Optical Activity of Chiral Metal Nanoclusters. Accounts of Materials Research, 2021, 2, 21-35.	11.7	62

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19	Recent advances in electrocatalytic chloride oxidation for chlorine gas production. Journal of Materials Chemistry A, 2021, 9, 18974-18993.	10.3	75
20	Scalable and controllable fabrication of CNTs improved yolk-shelled Si anodes with advanced in operando mechanical quantification. Energy and Environmental Science, 2021, 14, 3502-3509.	30.8	45
21	Make it stereoscopic: interfacial design for full-temperature adaptive flexible zincâ€“air batteries. Energy and Environmental Science, 2021, 14, 4926-4935.	30.8	108
22	Carbon-supported layered double hydroxide nanodots for efficient oxygen evolution: Active site identification and activity enhancement. Nano Research, 2021, 14, 3329-3336.	10.4	14
23	Ultrapermeable Composite Membranes Enhanced Via Doping with Amorphous MOF Nanosheets. ACS Central Science, 2021, 7, 671-680.	11.3	27
24	An efficient combination strategy for high-performance asymmetric-electrolyte metalâ€“air batteries. Matter, 2021, 4, 1090-1092.	10.0	5
25	Correlation and Improvement of Bimetallic Electronegativity on Metalâ€“Organic Frameworks for Electrocatalytic Water Oxidation. Advanced Energy and Sustainability Research, 2021, 2, 2100055.	5.8	8
26	Reâ€Looking into the Active Moieties of Metal Xâ€ides (Xâ€•= Phosphâ€, Sulfâ€, Nitrâ€, and Carbâ€) Toward Oxygen Evolution Reaction. Advanced Functional Materials, 2021, 31, 2102918.	14.9	68
27	Rechargeable zinc-air batteries with neutral electrolytes: Recent advances, challenges, and prospects. EnergyChem, 2021, 3, 100055.	19.1	59
28	Atomically dispersed S-Fe-N4 for fast kinetics sodium-sulfur batteries via a dual function mechanism. Cell Reports Physical Science, 2021, 2, 100531.	5.6	31
29	Metalâ€“Organic Frameworks for Electrocatalysis: Beyond Their Derivatives. Small Science, 2021, 1, 2100015.	9.9	94
30	Foldable and scrollable graphene paper with tuned interlayer spacing as high areal capacity anodes for sodium-ion batteries. Energy Storage Materials, 2021, 41, 395-403.	18.0	28
31	Interfacial Engineering of 3D Hollow Mo-Based Carbide/Nitride Nanostructures. ACS Applied Materials & Interfaces, 2021, 13, 50524-50530.	8.0	16
32	Metalâ€“Organic Frameworks for Electrocatalysis: Beyond Their Derivatives. Small Science, 2021, 1, .	9.9	13
33	A linear-to-rotary hybrid nanogenerator for high-performance wearable biomechanical energy harvesting. Nano Energy, 2020, 67, 104235.	16.0	172
34	A Flexible Rechargeable Zincâ€“Air Battery with Excellent Lowâ€Temperature Adaptability. Angewandte Chemie - International Edition, 2020, 59, 4793-4799.	13.8	217
35	A Flexible Rechargeable Zincâ€“Air Battery with Excellent Lowâ€Temperature Adaptability. Angewandte Chemie, 2020, 132, 4823-4829.	2.0	57
36	Understanding the Ion-Sorption Dynamics in Functionalized Porous Carbons for Enhanced Capacitive Energy Storage. ACS Applied Materials & Interfaces, 2020, 12, 2773-2782.	8.0	17

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37	Three-Dimensional Hierarchical Porous Nanotubes Derived from Metal-Organic Frameworks for Highly Efficient Overall Water Splitting. IScience, 2020, 23, 100761.	4.1	26
38	Electron affinity regulation on ultrathin manganese oxide nanosheets toward ultra-stable pseudocapacitance. Journal of Materials Chemistry A, 2020, 8, 23257-23264.	10.3	14
39	Tungsten Oxide/Carbide Surface Heterojunction Catalyst with High Hydrogen Evolution Activity. ACS Energy Letters, 2020, 5, 3560-3568.	17.4	70
40	Anion Etching for Accessing Rapid and Deep Self-Reconstruction of Precatalysts for Water Oxidation. Matter, 2020, 3, 2124-2137.	10.0	177
41	Octahedral Coordinated Trivalent Cobalt Enriched Multimetal Oxygenâ€Evolution Catalysts. Advanced Energy Materials, 2020, 10, 2002593.	19.5	47
42	Electrocatalytic hydrogen evolution under neutral pH conditions: current understandings, recent advances, and future prospects. Energy and Environmental Science, 2020, 13, 3185-3206.	30.8	225
43	Structural transformation of highly active metalâ€“organic framework electrocatalysts during the oxygen evolution reaction. Nature Energy, 2020, 5, 881-890.	39.5	647
44	Realâ€Time Carbon Monoxide Detection using a Rotating Gold Ring Electrode: A Feasibility Study. ChemElectroChem, 2020, 7, 4417-4422.	3.4	4
45	Recent Progress of Carbon-Supported Single-Atom Catalysts for Energy Conversion and Storage. Matter, 2020, 3, 1442-1476.	10.0	196
46	Structure regulated catalytic performance of gold nanocluster-MOF nanocomposites. Nano Research, 2020, 13, 1928-1932.	10.4	46
47	Photo-Rechargeable Fabrics as Sustainable and Robust Power Sources for Wearable Bioelectronics. Matter, 2020, 2, 1260-1269.	10.0	204
48	An approaching-theoretical-capacity anode material for aqueous battery: Hollow hexagonal prism Bi2O3 assembled by nanoparticles. Energy Storage Materials, 2020, 28, 82-90.	18.0	109
49	A Wireless Textile-Based Sensor System for Self-Powered Personalized Health Care. Matter, 2020, 2, 896-907.	10.0	310
50	Enhanced Degradation of Sulfamethoxazole (SMX) in Toilet Wastewater by Photo-Fenton Reactive Membrane Filtration. Nanomaterials, 2020, 10, 180.	4.1	16
51	Delocalized electron effect on single metal sites in ultrathin conjugated microporous polymer nanosheets for boosting CO ₂ cycloaddition. Science Advances, 2020, 6, eaaz4824.	10.3	68
52	Promoting Energy Efficiency via a Selfâ€Adaptive Evaporative Cooling Hydrogel. Advanced Materials, 2020, 32, e1907307.	21.0	151
53	Reordering d Orbital Energies of Singleâ€Site Catalysts for CO₂ Electroreduction. Angewandte Chemie - International Edition, 2019, 58, 12711-12716.	13.8	166
54	Bimetallic Metal-Organic Framework Derived Metal-Carbon Hybrid for Efficient Reversible Oxygen Electrocatalysis. Frontiers in Chemistry, 2019, 7, 747.	3.6	22

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55	Synthesis Metal-free Nitrogen-doped Porous Carbon by Removing Al from Al-MOFs as an Efficient Electrocatalyst for Oxygen Reduction Reaction. International Journal of Electrochemical Science, 2019, 14, 3024-3034.	1.3	2
56	Carbon Nanomaterials for Energy and Biorelated Catalysis: Recent Advances and Looking Forward. ACS Central Science, 2019, 5, 389-408.	11.3	67
57	Multistaged discharge constructing heterostructure with enhanced solid-solution behavior for long-life lithium-oxygen batteries. Nature Communications, 2019, 10, 5810.	12.8	80
58	Carbonâ€Based Metalâ€Free Catalysts for Key Reactions Involved in Energy Conversion and Storage. Advanced Materials, 2019, 31, e1801526.	21.0	273
59	Carbonâ€Based Metalâ€Free Catalysts for Electrocatalytic Reduction of Nitrogen for Synthesis of Ammonia at Ambient Conditions. Advanced Materials, 2019, 31, e1805367.	21.0	247
60	Ni5P4-NiP2 nanosheet matrix enhances electron-transfer kinetics for hydrogen recovery in microbial electrolysis cells. Applied Energy, 2018, 209, 56-64.	10.1	39
61	Metalâ€“Organic Frameworks Encapsulating Active Nanoparticles as Emerging Composites for Catalysis: Recent Progress and Perspectives. Advanced Materials, 2018, 30, e1800702.	21.0	362
62	Bread-derived 3D macroporous carbon foams as high performance free-standing anode in microbial fuel cells. Biosensors and Bioelectronics, 2018, 122, 217-223.	10.1	91
63	Microwaveâ€Assisted Rapid Synthesis of Grapheneâ€Supported Single Atomic Metals. Advanced Materials, 2018, 30, e1802146.	21.0	244
64	Metallic Cobaltâ€“Carbon Composite as Recyclable and Robust Magnetic Photocatalyst for Efficient CO₂ Reduction. Small, 2018, 14, e1800762.	10.0	91
65	Sandwichâ€Like Reduced Graphene Oxide/Carbon Black/Amorphous Cobalt Borate Nanocomposites as Bifunctional Cathode Electrocatalyst in Rechargeable Zincâ€Air Batteries. Advanced Energy Materials, 2018, 8, 1801495.	19.5	65
66	A general approach to cobalt-based homobimetallic phosphide ultrathin nanosheets for highly efficient oxygen evolution in alkaline media. Energy and Environmental Science, 2017, 10, 893-899.	30.8	412
67	Research on Carbon-Based Electrode Materials for Supercapacitors. Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica, 2017, 33, 130-148.	4.9	32
68	Cage-Confinement Pyrolysis Route to Ultrasmall Tungsten Carbide Nanoparticles for Efficient Electrocatalytic Hydrogen Evolution. Journal of the American Chemical Society, 2017, 139, 5285-5288.	13.7	336
69	Co₃O₄ Hexagonal Platelets with Controllable Facets Enabling Highly Efficient Visibleâ€Light Photocatalytic Reduction of CO₂. Advanced Materials, 2016, 28, 6485-6490.	21.0	395
70	Ultrathin metalâ€“organic framework nanosheets for electrocatalytic oxygen evolution. Nature Energy, 2016, 1, .	39.5	1,979
71	Porous Fe-Nx/C hybrid derived from bi-metal organic frameworks as high efficient electrocatalyst for oxygen reduction reaction. Journal of Power Sources, 2016, 311, 137-143.	7.8	71
72	Cu₂O clusters grown on TiO₂ nanoplates as efficient photocatalysts for hydrogen generation. Inorganic Chemistry Frontiers, 2016, 3, 488-493.	6.0	54

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73	Efficient water oxidation under visible light by tuning surface defects on ceria nanorods. Journal of Materials Chemistry A, 2015, 3, 20465-20470.	10.3	82
74	Ultrathin platinum nanowires grown on single-layered nickel hydroxide with high hydrogen evolution activity. Nature Communications, 2015, 6, 6430.	12.8	848
75	Multiple Au cores in CeO2 hollow spheres for the superior catalytic reduction of p-nitrophenol. Chinese Journal of Catalysis, 2015, 36, 261-267.	14.0	24
76	Three-dimensional graphene/Pt nanoparticle composites as freestanding anode for enhancing performance of microbial fuel cells. Science Advances, 2015, 1, e1500372.	10.3	209
77	Facile and surfactant-free synthesis of SnO2-graphene hybrids as high performance anode for lithium-ion batteries. Ionics, 2015, 21, 987-994.	2.4	14
78	Nanostructured photoelectrochemical biosensor for highly sensitive detection of organophosphorous pesticides. Biosensors and Bioelectronics, 2015, 64, 1-5.	10.1	78
79	Carbonized Nanoscale Metalâ€“Organic Frameworks as High Performance Electrocatalyst for Oxygen Reduction Reaction. ACS Nano, 2014, 8, 12660-12668.	14.6	509
80	Three dimensional N-doped graphene/PtRu nanoparticle hybrids as high performance anode for direct methanol fuel cells. Journal of Materials Chemistry A, 2014, 2, 3719.	10.3	183
81	Threeâ€Ðimensional Graphene/Metal Oxide Nanoparticle Hybrids for Highâ€Performance Capacitive Deionization of Saline Water. Advanced Materials, 2013, 25, 6270-6276.	21.0	499
82	Study on the Oxidation Enhancement of Formic Acid and Formate Blended Fuel Solution on Pt Catalyst. Fuel Cells, 2013, 13, 167-172.	2.4	9
83	A Wireless Textile Based Sensor System for Self-Powered Personalized Health Care. SSRN Electronic Journal, 0, , .	0.4	2